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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 63/23/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800

WASHINGTON DC 20037

EXAMINER

ANTHONY, JOSEPH DAVID

ART UNIT PAPER NUMBER

1706

DATE MAILED: 03/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/581,063	05/30/2006	Wook Yeal Yoon	Q95215	6872	
TITLE OF INVENTION: COMPOSITION FOR ACTION OF RESIST-FIRE AND FIRE-EXTINGUISHING					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used for correspondence including d below or directed oth tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Not Fee pap bay	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
SUITE 800	VANIA AVENUE		·.	I be	Cer	tificate	of Mailing or Trans	
WASHINGTON	, DC 20037							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/581,063	05/30/2006			Wook Yeal Yoon		•	Q95215 6872	
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APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES		\$755	\$300	\$0		\$1055	06/23/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS				
ANTHONY, JO	SEPH DAVID		1796	252-002000				
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach	nge of "Indicated. Use	Correspondence ation form e of a Customer	2. For printing on the p (1) the names of up to ragents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atte listed, no name will be THE PATENT (print or ty data will appear on the p	o 3 registered pater wely, le firm (having as a agent) and the nam orneys or agents. If printed.	nt attorn n memb nes of u no nan	era 2 p to er is 3	ocument has been filed for
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	s SMALL ENTITY state	ıs. See	37 CFR I.27.	b. Applicant is no lor				
interest as shown by the	d Publication Fee (it requeecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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23373	7590 03/23/2009		EXAM	UNER	
SUGHRUE MIC	ON, PLLC		ANTHONY, JOSEPH DAVID		
2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON,	DC 20037		1796 DATE MAII ED: 03/23/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 602 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 602 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)	
10/581,063	YOON, WOOK YEAL	
Examiner	Art Unit	
Joseph D. Anthony	1706	

Notice of Allowability	Examiner	Art Unit	
	Joseph D. Anthony	1796	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS. herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate communities. This application is s	n this application. If not includ unication will be mailed in due	ed course. THIS
This communication is responsive to			
2. ☑ The allowed claim(s) is/are <u>1-2</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some 'o i ☐ None of the: a) ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 6. ☐ Certified copies of the priority documents have 7. ☐ Certified copies of the priority documents have 8. ☐ Certified copies not received: ☐ CERTIFIED ADATE*, noted below. Failure to timely comply will result in ABANDOMN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit in NFORMAL PATENT APPLICATION (PTO-152) which give to ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ Cept No./Mail	been received. been received in Applicatic cuments have been received of this communication to file ENT of this application. tited. Note the attached EX/ is reason(s) why the oath or t be submitted. on's Patent Drawing Review a Amendment / Comment or 84(c) should be written on the	on No Id in this national stage applice a reply complying with the re MINIER'S AMENDMENT or Note declaration is deficient. If (PTO-948) attached in the Office action of the drawings in the front (not the	quirements
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), Mail Date_ Amendment/Comment Statement of Reasons for Alk	owance
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 $Continuation \ of \ Attachment (s) \ 3. \ Information \ Disclosure \ Statements \ (PTO/SB/08), \ Paper \ No./Mail \ Date: \ 05/30/06 \ and \ 09/05/06.$

Application/Control Number: 10/581,063

Art Unit: 1796

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Applicant's independent claim 1 reads as followed:

"A composition for fire-resisting and fire-extinguishing comprising monobasic sodium phosphate, dibasic ammonium phosphate, borax, boric acid, polyoxyalkylated alkyl phosphoric acid ester and water in a ratio of about 1: about $1 \sim 5$: about $0.3 \sim 1.5$: abou

Applicant's said independent claim is deemed to be free of any prior-art rejection since there are no prior-art references, either individually or in combination, that teach or suggest a composition which contains all the above components in the claimed concentration ratios. While all the above components are individually known in the art to be used in fire extinguishing and/or flame retarding compositions, their combination together at the claimed concentration ratios, is unknown and unobvious over the priorart.

The closest piece of prior-art is deemed to be Rock U.S. Patent Number 5,156,890. Rock teaches a method for imparting flame resistance to fabric articles comprising natural or regenerated fibers is provided for. The method comprises: applying a detergent solution to fabric articles; rinsing the detergent solution from the fabric articles; applying an aqueous solution of one or more water-soluble flame retardant compounds to the damp fabric articles; removing excess amounts of the aqueous flame retardant solution from the fabric articles; recycling the excess amount of the aqueous retardant solution for use in treating other fabric articles; filtering the

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recycled aqueous flame retardant solution; and drying the fabric articles. Specifically disclosed flame retarding mixtures taught by Rock are: 1) borax, boric acid and diammonium phosphate (47/20/33), and 2) borax, boric acid and sodium phosphate dodecahydrate (50/35/15). Said mixtures are subsequently added to an aqueous composition at a concentration from about 8 to about 30 wt. %, see column 4, lines 38-58 and claims 3 and 6. Please note that the sodium phosphate dodecahydrate component is a species of a "sodium phosphate, dibasic" and NOT a species of a "sodium phosphate, monobasic" as claimed by applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior-Art Cited But Not Applied

Any prior-art reference which is cited on FORM PTO-892 but not applied, is cited only to show the general state of the prior-art at the time of applicant's invention.

Examiner Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The centralized FAX

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Art Unit: 1796

machine number is (571) 273-8300. All other papers received by FAX will be treated as

Official communications and cannot be immediately handled by the Examiner.

/Joseph D. Anthony/ Primary Patent Examiner Art Unit 1796 03/16/09